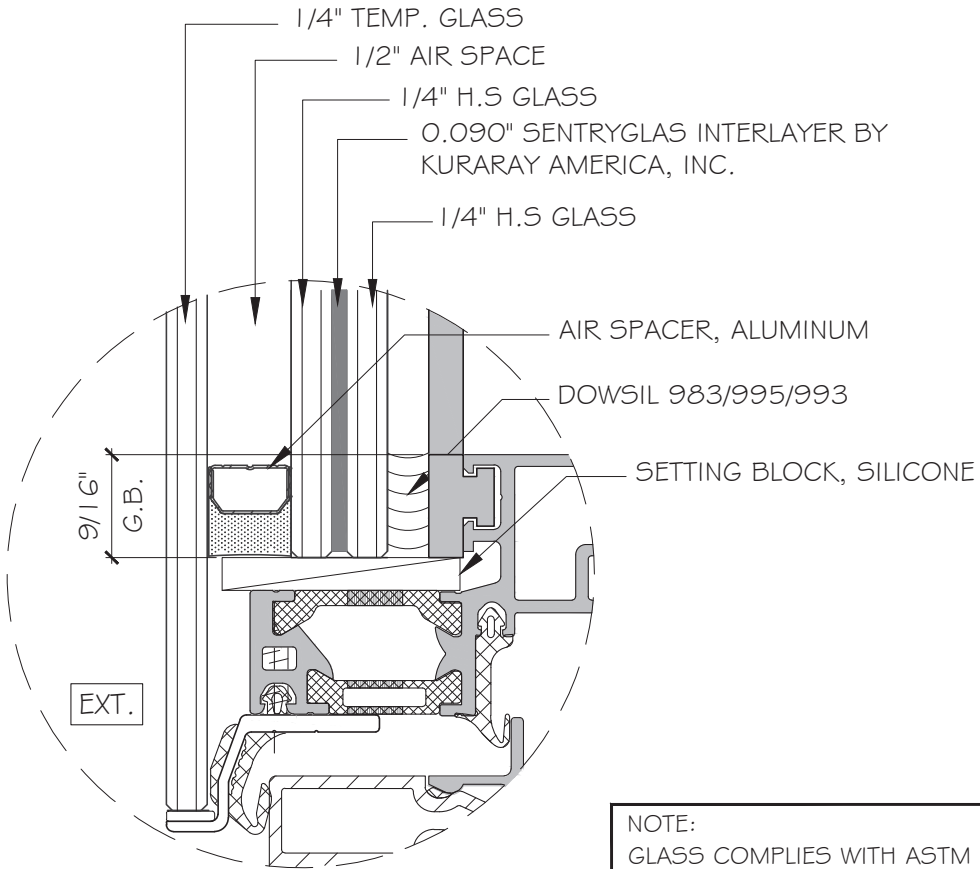


ES WINDOWS, INC.
SERIES ES-AWS 114 ALUMINUM AWNING WINDOW SYSTEM
LARGE & SMALL MISSILE IMPACT

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020)/ 8TH EDITION FLORIDA BUILDING CODE (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
 - WINDOWS RATED FOR LARGE AND SMALL MISSILE IMPACT. LMI SYSTEM TO BE USED FOR INSTALLATIONS UP TO 30 FT OF GRADE. FOR ABOVE 30 FT OF GRADE, SMI TO BE USED. IMPACT SHUTTERS ARE NOT REQUIRED.
 - SYSTEM TESTED FOR LEVEL "D" IMPACT.
 - PRODUCT COMPLIES WITH REQUIREMENT OF ANSI Z97.1
 - WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION.
 - ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS.
 - ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE APPROVAL DRAWING ARE NOT PART OF THIS APPROVAL.
 - MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020)/ 8TH EDITION FLORIDA BUILDING CODE (2023) SECTION AS APPLICABLE.
 - METAL STRUCTURES BY OTHERS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.
 - ULTIMATE LOAD OBTAINED FROM ASCE 7-16/ ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.
 - MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.
- SEALANTS:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH SILICONE SEALANT.



GLASS: 1 5/16" NOMINAL OVERALL

NOTE:
GLASS COMPLIES WITH ASTM E 1300-09
(3 SEC. GUSTS).

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD PRESSURE BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-16 STANDARD OR WIND TUNNEL REPORTS.
- STEP 2: SEE SHEET E1 FOR TYPICAL WINDOW ELEVATION AND CAPACITY.
- STEP 3: SEE SHEET A1 FOR ANCHOR OPTIONS. ANCHOR SPACING SEE SHEET E1.
- STEP 4: THE LOWEST VALUE RESULTING FROM STEPS 2 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
W/ - WITH
W/O - WITHOUT
O.C. - ON CENTER

SECTION
NUMBER

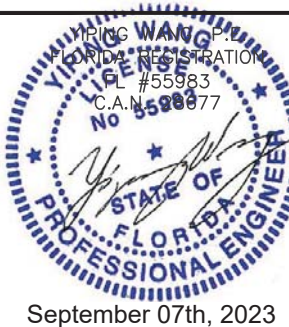
SHEET
NUMBER

LIMITATIONS OF USE

- A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, E. G. WHAT THE SITE CONDITIONS DEViate FROM THE P.E.D.
- B- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION REPORT. HE/SHE DOES NOT DEViate FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- D- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FLORIDA APPROVAL:

FL #37857



ES-AWS 114 ALUM. AWNING WINDOW (LMI)

ES WINDOWS, INC.

50 NW 49th Street

TEL. (305) 638-5151

MCY ENGINEERING, INC.

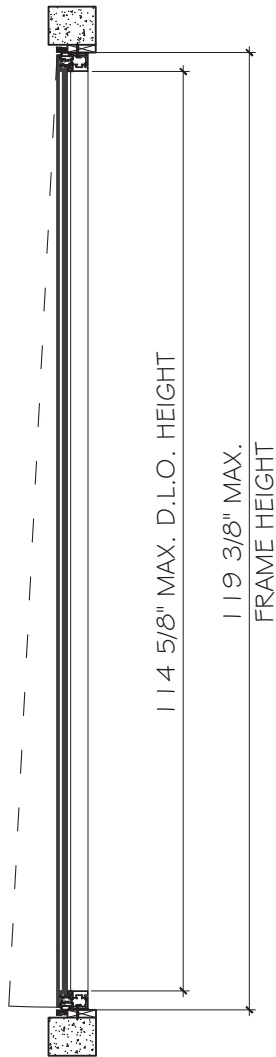
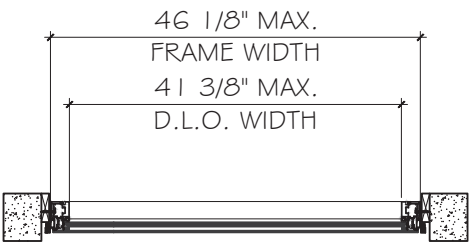
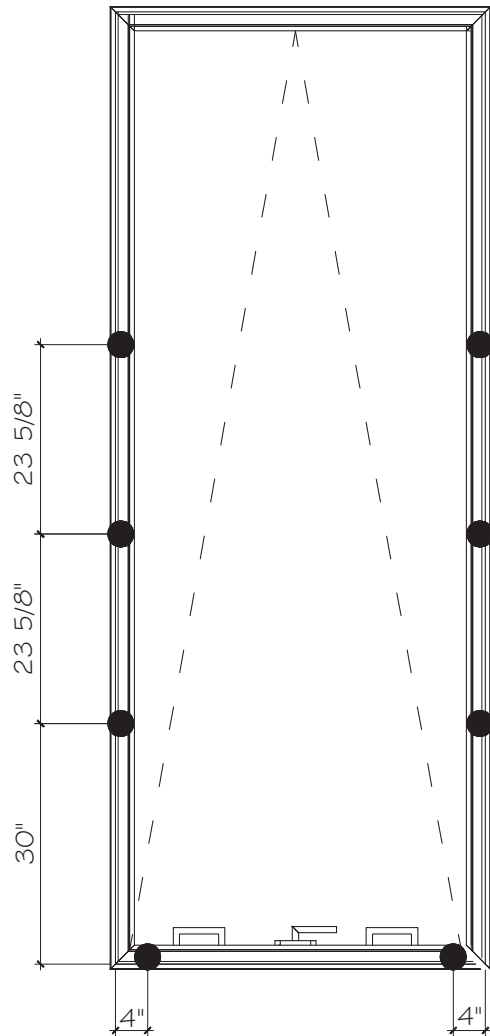
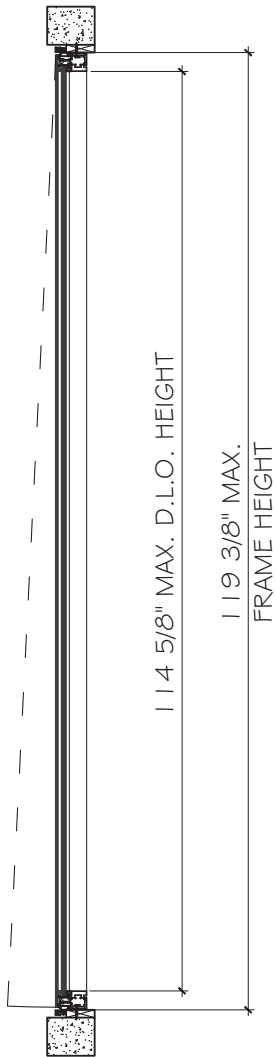
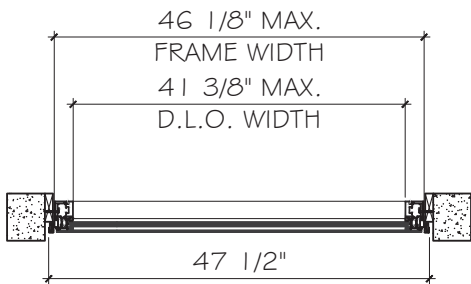
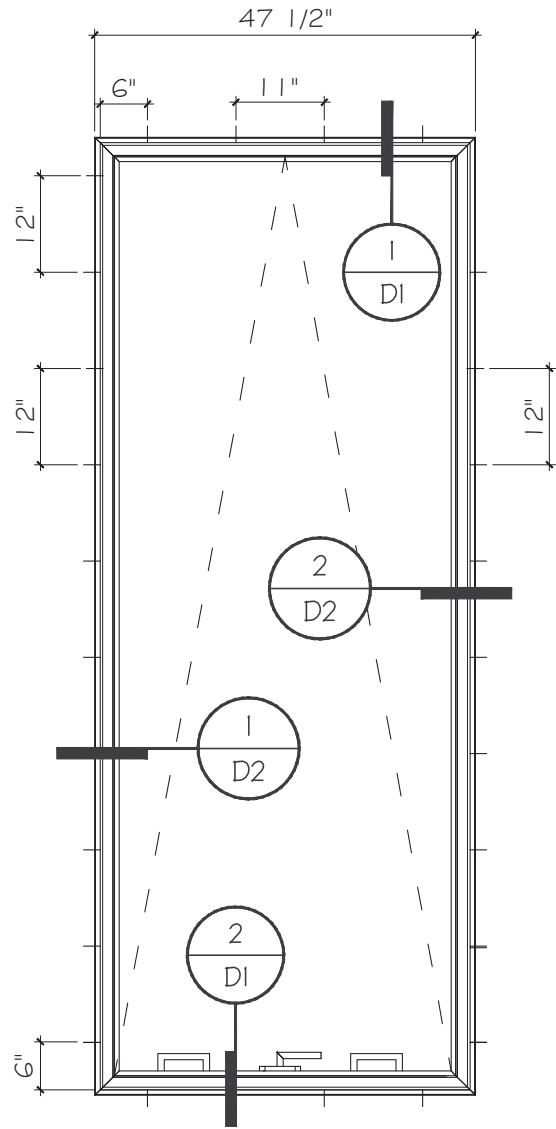
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FL 33027

mcy@mcyengineering.com

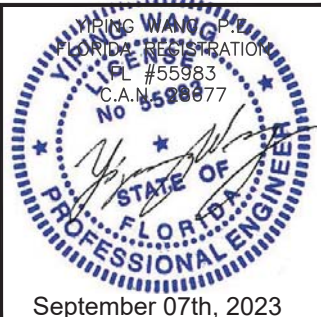
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WINDOW ALLOW. CAPACITIES - PSF		
FRAME WIDTH	FRAME HEIGHT	Pd (+/-)
42"	119 3/8"	66
46 1/8"	119 3/8"	66
42"	114"	54.1
48"	114"	54.1
54"	84"	30
54"	96"	30
54"	102"	30

● LOCKING POINT

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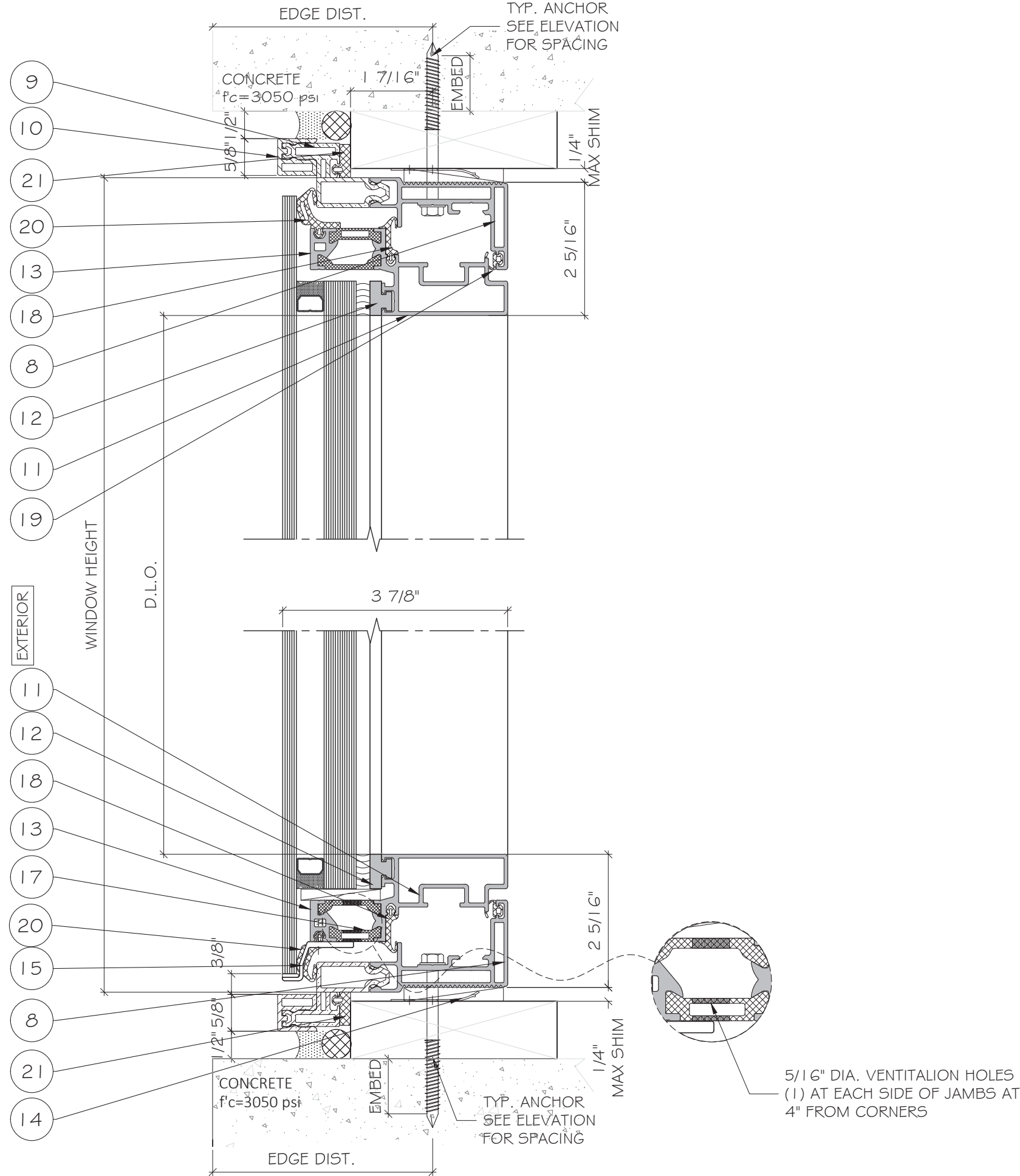
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09/11/2023	James	R2	UPDATE FBC 2023
DRAWING NO.		AD21-03	
Sheet No.		2 OF 8	

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DETAIL

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DETAIL



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FL #37857

YIPING WANG
PROFESSIONAL ENGINEER
FLORIDA REGISTRATION
No. 55983
C.A.N. 5598377
September 07th, 2023

ES-AWS 114 ALUM. AWNING WINDOW (LMI)

ES WINDOWS, INC
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Miami, FL 33142
TEL. (305) 638-5151

Rev. No.	Date	Drawn By	Description
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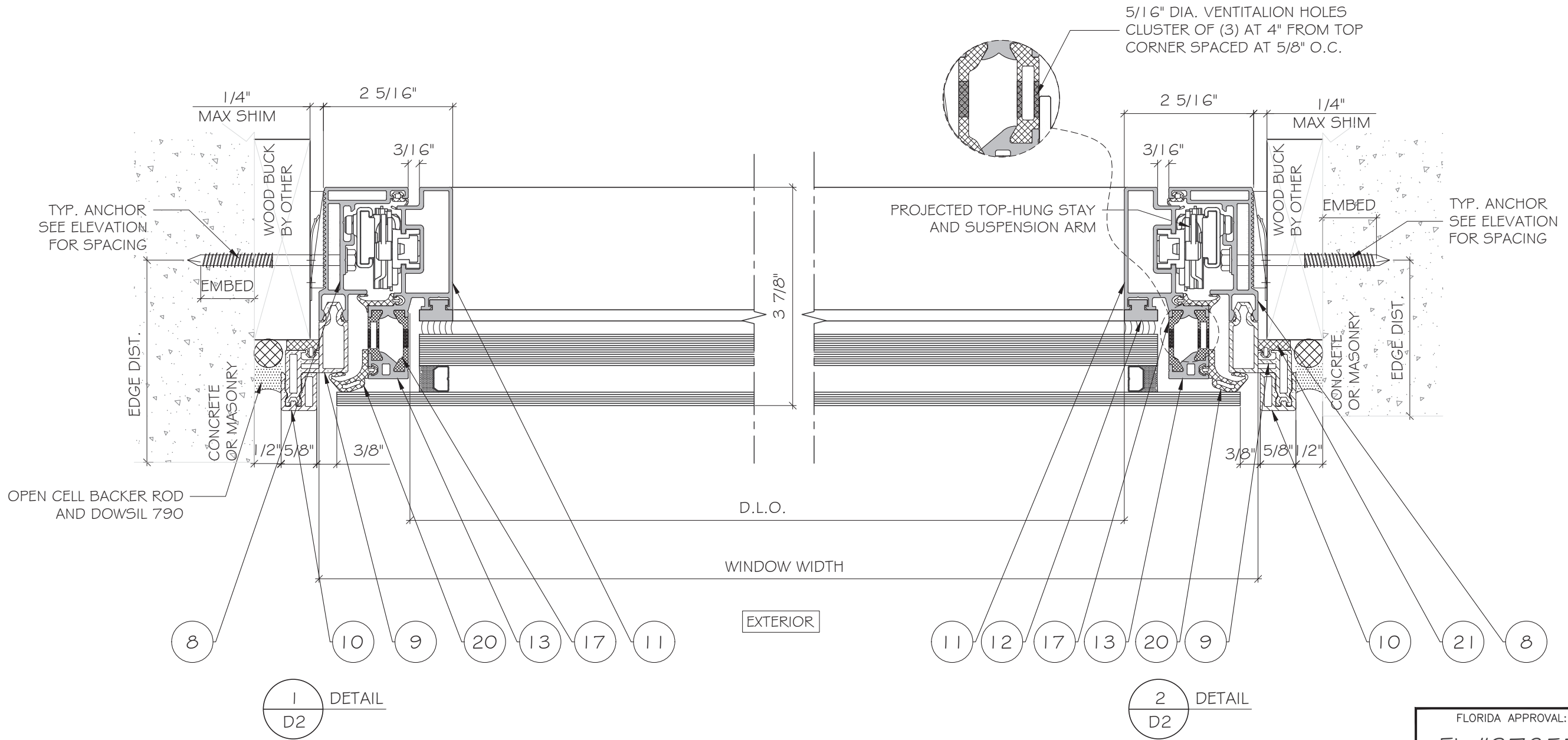
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Sheet No.
3 OF 8

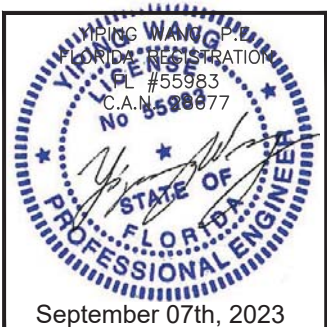
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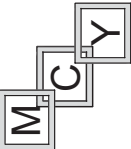


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DRAWING NO.	
AD21-03	
Sheet No.	
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SEE ELEVATIONS FOR SPACING

STEEL : 12 GA. MIN. ($F_y = 36$ KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CONCRETE $f'_c = 3050$ PSI MIN.
C-90 HOLLOW/FILLED BLOCK $f'_m = 2000$ PSI MIN.

*MASONRY - HOLLOW BLOCK OR
GROUT FILLED CONCRETE BLOCK
(f'c=2000 PSI MIN.)

NOTE: MASONRY USED AT JAMB SUBSTRATE ONLY

1 7/16" MIN.

1/2"

METAL STRUCTURE BY OTHERS

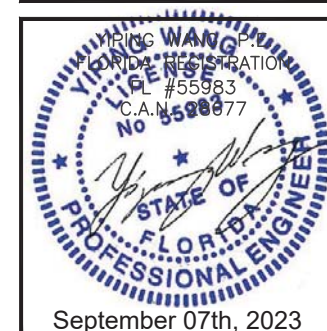
TYP. ANCHOR SEE ELEVATION FOR SPACING

8

1/4" MAX SHIM

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September 07th, 2023

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Sheet No.
OF 8

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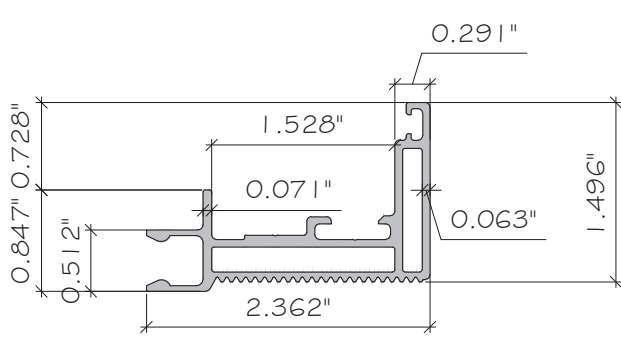
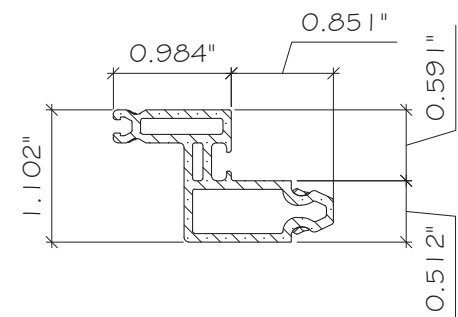
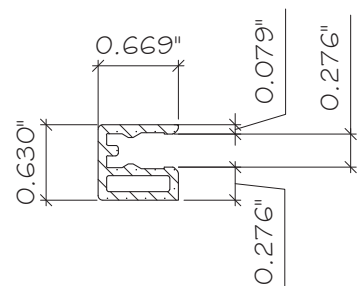
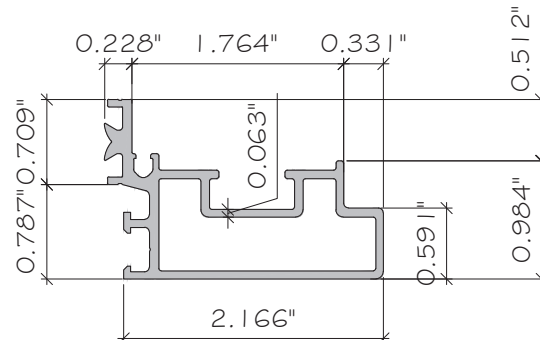
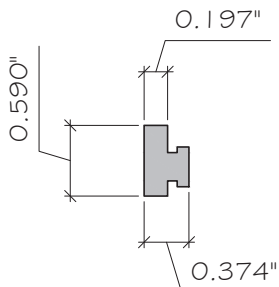
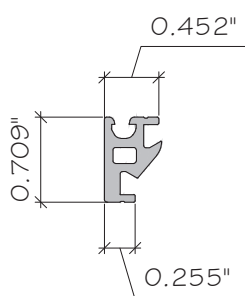
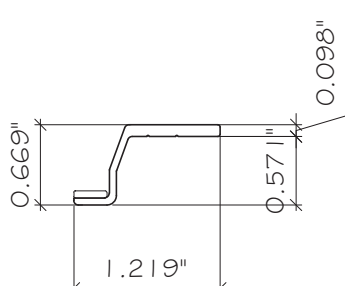
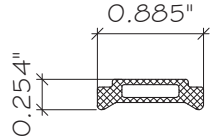
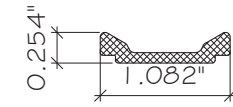
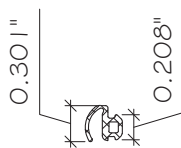
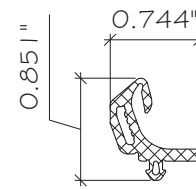
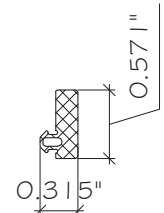
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 8 448140 FRAME 6060-T66	 9 278781 PVC OUTER FRAME	 10 278633 FACING PROFILE-PVC	 14 268034 INNER GLASS CARRIER -PVC																																
 11 448650 ALUM. FRAME 6060-T66	 12 - ALUM. INNER PROFILE 6060-T66	 13 448570 ALUM. FRAME 6060-T66	 15 268031 OUTER GLASS CARRIER -ALUM. /SILICPNE																																
 17 448570 GASKET -EPDM	 17 448570 GASKET -EPDM	 18 246878 CENTER GASKET -EPDM	 19 224896 OUTER GASKET -EPDM																																
 20 246922 OUTER GASKET -EPDM	 21 244072 INNER GASKET -EPDM	FLORIDA APPROVAL: FL #37857 YIRONG WANG PROFESSIONAL ENGINEER STATE OF FLORIDA September 07th, 2023 <table><tr><td>Drawn Date</td><td>09/11/2023</td><td>Drawn By</td><td>James</td><td>DATE</td><td>09/11/2023</td><td>DESCRIPTION</td><td>UPDATE FBC 2023</td></tr><tr><td colspan="4">DRAWING NO.</td><td colspan="4">AD21-03</td></tr><tr><td colspan="4">PARTS</td><td colspan="4">Sheet No.</td></tr><tr><td colspan="4">6</td><td colspan="4">OF 8</td></tr></table>		Drawn Date	09/11/2023	Drawn By	James	DATE	09/11/2023	DESCRIPTION	UPDATE FBC 2023	DRAWING NO.				AD21-03				PARTS				Sheet No.				6				OF 8			
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